

## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Tuesday, January 25, 2005 4:07 PM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10777765

Here are the PLUS search results for 10777765.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10777765\_QUAL.txt



10777765\_LIST.txt



10777765\_WEST.txt



10777765\_EAST.txt



10777765.east



10777765\_CLS.txt



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PLUS Search Results for S/N 10777765, Searched January 25, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10777765 on January 25, 2005

Original Classifications

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| 8  | 73/290V  |
| 8  | 342/13   |
| 8  | 342/160  |
| 7  | 342/201  |
| 5  | 342/189  |
| 4  | 342/132  |
| 4  | 342/159  |
| 4  | 342/162  |
| 3  | 73/304C  |
| 3  | 324/644  |
| 3  | 327/181  |
| 3  | 342/118  |
| 3  | 342/196  |
| 3  | 342/202  |
| 3  | 342/22   |
| 3  | 342/25R  |
| 3  | 342/387  |
| 3  | 342/39   |
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| 3  | 342/93   |
| 3  | 356/5.09 |
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| 2  | 73/167   |
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| 2  | 257/431  |
| 2  | 307/106  |
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| 2  | 342/51   |
| 2  | 367/87   |
| 2  | 375/340  |
| 2  | 600/493  |
| 2  | 702/3    |

2 706/20

## Cross-Reference Classifications

16 342/195  
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2 600/495  
2 706/28  
2 708/404  
2 708/405

Combined Classifications

31 342/124  
22 73/290R  
20 73/290V  
17 342/195  
16 342/118  
14 342/201  
13 342/160  
12 342/91  
11 342/159  
11 342/189  
11 342/196  
10 342/13  
10 342/132  
10 342/175  
8 342/128  
8 342/145  
8 342/162  
8 342/192  
8 342/202  
7 324/642  
7 342/93  
6 73/304C  
6 324/644  
6 327/181  
6 342/115  
6 342/134  
6 342/194  
6 342/197  
6 342/205  
6 342/22  
6 342/37  
6 342/94  
5 342/120  
5 342/127

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5 342/174  
5 342/203  
5 342/21  
5 342/32  
5 342/379  
5 342/39  
5 342/40  
5 342/82  
5 342/89  
5 367/908  
4 307/106  
4 342/135  
4 342/137  
4 342/173  
4 342/378  
4 342/42  
4 342/51  
4 342/92  
4 342/99  
4 356/5.09  
4 367/99  
4 375/340  
3 73/304R  
3 257/431  
3 257/E31.021  
3 257/E31.052  
3 324/637  
3 327/72  
3 331/65  
3 333/254  
3 342/104  
3 342/109  
3 342/126  
3 342/16  
3 342/198  
3 342/204  
3 342/25F  
3 342/25R  
3 342/387  
3 342/45  
3 342/46  
3 342/59  
3 342/85  
3 356/28.5  
3 361/284  
3 367/87  
3 600/495  
3 701/45

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3 706/31  
2 73/167  
2 73/293  
2 73/660  
2 180/274  
2 210/170  
2 250/214.1  
2 250/577  
2 324/632  
2 324/643  
2 327/183  
2 329/311  
2 331/87  
2 333/252  
2 340/620  
2 342/101  
2 342/111  
2 342/123  
2 342/129  
2 342/165  
2 342/176  
2 342/20  
2 342/200  
2 342/26R  
2 342/28  
2 342/372  
2 342/43  
2 342/450  
2 342/455  
2 342/462  
2 342/463  
2 342/465  
2 342/5  
2 342/54  
2 342/70  
2 356/4.09  
2 356/5.01  
2 356/5.03  
2 356/73.1  
2 367/88  
2 372/18  
2 375/238  
2 375/317  
2 375/345  
2 375/349  
2 442/230  
2 442/231  
2 455/305



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2 600/493  
2 702/3  
2 706/20  
2 706/28  
2 708/404  
2 708/405

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10777765 on January 25, 2005

|    |             |  |
|----|-------------|--|
| 31 | 342/124     | (22 OR, 9 XR)  |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/118     | DETERMINING DISTANCE                                     |
|    | 342/124     | .Material level within container                         |
| 22 | 73/290R     | (8 OR, 14 XR)  |
|    | Class 073 : | MEASURING AND TESTING                                    |
|    | 73/290R     | LIQUID LEVEL OR DEPTH GAUGE                              |
| 20 | 73/290V     | (8 OR, 12 XR)  |
|    | Class 073 : | MEASURING AND TESTING                                    |
|    | 73/290R     | LIQUID LEVEL OR DEPTH GAUGE                              |
|    | 73/290V     | .Vibratory type  |
| 17 | 342/195     | (1 OR, 16 XR)  |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/175     | WITH PARTICULAR CIRCUIT                                  |
|    | 342/195     | .Digital processing                                      |
| 16 | 342/118     | (3 OR, 13 XR)  |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/118     | DETERMINING DISTANCE                                     |
| 14 | 342/201     | (7 OR, 7 XR)   |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/175     | WITH PARTICULAR CIRCUIT                                  |
|    | 342/200     | .For frequency modulation                                |
|    | 342/201     | ..Combined with pulse modulation                         |
| 13 | 342/160     | (8 OR, 5 XR)   |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/159     | CLUTTER ELIMINATION                                      |
|    | 342/160     | .MTI (Moving target indicator)                           |
| 12 | 342/91      | (3 OR, 9 XR)   |
|    | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
|    | 342/73      | RETURN SIGNAL CONTROLS RADAR SYSTEM                      |

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342/89 .Receiver  
342/91 ..Gain or threshold

- 11 342/159 (4 OR, 7 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/159 CLUTTER ELIMINATION
- 11 342/189 (5 OR, 6 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT  
342/189 .For correlation
- 11 342/196 (3 OR, 8 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT  
342/195 .Digital processing  
342/196 ..Fast fourier transform (FFT)
- 10 342/13 (8 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/13 RADAR EW (ELECTRONIC WARFARE)
- 10 342/132 (4 OR, 6 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/118 DETERMINING DISTANCE  
342/128 .With frequency modulation  
342/130 ..Plural modulation  
342/131 ...Combined with pulse modulation (e.g.,  
frequency agile)  
342/132 ....With pulse modulation (e.g., "Chirp")
- 10 342/175 (0 OR, 10 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT
- 8 342/128 (0 OR, 8 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/118 DETERMINING DISTANCE  
342/128 .With frequency modulation
- 8 342/145 (0 OR, 8 XR)

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 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/145 .With correlation

8 342/162 (4 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/159 CLUTTER ELIMINATION  
 342/160 .MTI (Moving target indicator)  
 342/162 ..Digital

8 342/192 (1 OR, 7 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/192 .Spectrum analysis

8 342/202 (3 OR, 5 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/202 .For pulse modulation

7 324/642 (2 OR, 5 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES  
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RE

SPONSE

RELATIONSHIPS  
 324/629 .Distributive type parameters  
 324/637 ..Using transmitted or reflected microwaves  
 324/642 ...Where energy is reflected (e.g.,  
 reflectometry)

7 342/93 (3 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
 342/89 .Receiver  
 342/91 ..Gain or threshold  
 342/93 ...Constant false alarm rate (CFAR)

6 73/304C (3 OR, 3 XR)  
 Class 073 : MEASURING AND TESTING  
 73/290R LIQUID LEVEL OR DEPTH GAUGE  
 73/304R .Immersible electrode type  
 73/304C ..Capacitative

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6 324/644 (3 OR, 3 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES  
 REPRESENTATIVE OF ELECTRICAL STIMULUS/R  
 ESPONSE

RELATIONSHIPS  
 324/629 .Distributive type parameters  
 324/637 ..Using transmitted or reflected microwaves  
 324/642 ...Where energy is reflected (e.g.,  
 reflectometry)  
 324/644 ....To determine dimension (e.g., distance or  
 thickness)

6 327/181 (3 OR, 3 XR)  
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING  
 327/181 .Electromagnetic pulse forming

6 342/115 (1 OR, 5 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY  
 342/115 .Digital

6 342/134 (0 OR, 6 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/134 .With pulse modulation

6 342/194 (0 OR, 6 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/194 .Complex signal (in phase and quadrature)

6 342/197 (2 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/195 .Digital processing  
 342/197 ..With video quantizer

6 342/205 (1 OR, 5 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES

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 342/175 WITH PARTICULAR CIRCUIT  
 342/205 .Sensitivity time control (STC)

6 342/22 (3 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR  
 FREE SPACE

6 342/37 (2 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/36 AIR TRAFFIC CONTROL  
 342/37 .Secondary Surveillance Radar (SSR) or Air  
 Traffic Control Radar Beacon System (ATCRBS

)

6 342/94 (1 OR, 5 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
 342/89 .Receiver  
 342/94 ..Gating

5 342/120 (1 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/120 .Altimeter

5 342/127 (0 OR, 5 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/127 .Phase comparison

5 342/174 (1 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
 342/173 .By monitoring  
 342/174 ..Calibrating

5 342/203 (1 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/202 .For pulse modulation

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342/203 ..With noise reduction

5 342/21 (2 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/21 BASE BAND SYSTEM

5 342/32 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)

342/30 .With transponder

342/32 ..Included in Secondary Surveillance Radar (SSR

)  
or Air Traffic Control Radio Beacon System

(ATCRBS)

5 342/379 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

5 342/39 (3 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRB

S)  
342/39 ..With side lobe suppression

5 342/40 (2 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRB

S)  
342/40 ..With defruiting or degarbling

5 342/82 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM

342/82 .Transmitter

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- 5 342/89 (1 OR, 4 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89 .Receiver
- 5 367/908 (0 OR, 5 XR)  
     Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
                     SYSTEMS AND DEVICES  
     367/908 MATERIAL LEVEL DETECTION, E.G., LIQUID LEVEL
- 4 307/106 (2 OR, 2 XR)  
     Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
                     SYSTEMS  
     307/106 WAVE FORM OR WAVE SHAPE DETERMINATIVE OR  
                     PULSE-PRODUCING SYSTEMS
- 4 342/135 (0 OR, 4 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/118 DETERMINING DISTANCE  
     342/134 .With pulse modulation  
     342/135 ..Digital (e.g., with counter)
- 4 342/137 (1 OR, 3 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/118 DETERMINING DISTANCE  
     342/134 .With pulse modulation  
     342/137 ..With variable pulse repetition frequency  
                     (PRF) or pulse width
- 4 342/173 (1 OR, 3 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
     342/173 .By monitoring
- 4 342/378 (1 OR, 3 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/378 .Utilizing correlation techniques
- 4 342/42 (1 OR, 3 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/42 RADAR TRANSPONDER SYSTEM



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4 342/51 (2 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/42 RADAR TRANSPONDER SYSTEM  
     342/51 .Radar transponder only

4 342/92 (1 OR, 3 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89 .Receiver  
     342/91 ..Gain or threshold  
     342/92 ...Automatic gain control (AGC)

4 342/99 (0 OR, 4 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89 .Receiver  
     342/98 ..Frequency  
     342/99 ...Doppler frequency tracking

4 356/5.09 (3 OR, 1 XR)  
     Class 356 : OPTICS: MEASURING AND TESTING  
     356/3 RANGE OR REMOTE DISTANCE FINDING  
     356/4.01 .With photodetection  
     356/5.09 ..Of frequency difference

4 367/99 (0 OR, 4 XR)  
     Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
                     SYSTEMS AND DEVICES  
     367/87 ECHO SYSTEMS  
     367/99 .Distance or direction finding

4 375/340 (2 OR, 2 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/340 .Particular pulse demodulator or detector

3 73/304R (0 OR, 3 XR)  
     Class 073 : MEASURING AND TESTING  
     73/290R LIQUID LEVEL OR DEPTH GAUGE  
     73/304R .Immersible electrode type

3 257/431 (2 OR, 1 XR)  
     Class 257 : ACTIVE SOLID-STATE DEVICES  
     257/414 RESPONSIVE TO NON-ELECTRICAL SIGNAL (E.G.,

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CHEMICAL, STRESS, LIGHT, OR MAGNETIC FIELD

D SENSORS)

257/428 .Electromagnetic or particle radiation  
257/431 ..Light

3 257/E31.021 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E31.001 SEMICONDUCTOR DEVICES RESPONSIVE OR SENSITIVE  
TO ELECTROMAGNETIC RADIATION (E.G., I

NFRARED RADIATION,

ADAPTED FOR CONVERSION OF RADIATION I

NTO ELECTRICAL ENERGY

OR FOR CONTROL OF ELECTRICAL ENERGY B

Y SUCH RADIATION

PROCESSES, OR APPARATUS PECULIAR TO M

ANUFACTURE OR

TREATMENT OF SUCH DEVICES, OR OF PART

S THEREOF) (EPO)

257/E31.002 .Characterized by semiconductor body (EPO)

257/E31.003 ..Characterized by semiconductor body material  
(EPO)

257/E31.004 ...Inorganic materials (EPO)

257/E31.019 ....Including, apart from doping material or  
other impurity, only Group III-V compound

(EPO)

257/E31.02 .....For device having potential or surface  
barrier (EPO)

257/E31.021 .....Characterized by doping material GaAlAs,  
InGaAs, InGaAsP (EPO)

3 257/E31.052 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E31.046 .....Including microcrystalline Group IV  
compound (e.g., c-SiGe, c-SiC) (EPO)

257/E31.052 .Adapted to control current flow through devic

e

(e.g., photoresistor) (EPO)

3 324/637 (0 OR, 3 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/RES

PONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/637 ..Using transmitted or reflected microwaves

3 327/72 (0 OR, 3 XR)

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Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
 DEVICES, CIRCUITS, AND SYSTEMS  
 327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,  
 COMPARING, SELECTING, ETC.) WITHOUT SUBSE  
 QUENT CONTROL  
 327/50 .By amplitude  
 327/72 ..Input signal compared to reference derived  
 therefrom

3 331/65 (0 OR, 3 XR)  
 Class 331 : OSCILLATORS  
 331/65 WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL  
 CONDITION

3 333/254 (0 OR, 3 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/245 LONG LINE ELEMENTS AND COMPONENTS  
 333/248 .Waveguide elements and components  
 333/254 ..Connectors and interconnections

3 342/104 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY

3 342/109 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY  
 342/109 .Combined with determining distance

3 342/126 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/126 .Triangulation

3 342/16 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/13 RADAR EW (ELECTRONIC WARFARE)  
 342/16 .ECCM (Electronic counter-countermeasures,  
 i.e., antijamming)

3 342/198 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT

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342/198 .For receiver protection

3 342/204 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/202 .For pulse modulation  
 342/204 ..With pulse shaping

3 342/25F (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/25R SYNTHETIC APERTURE RADAR  
 342/25A .Mapping or imaging using synthetic aperture  
 radar  
 342/25F ..Particular SAR processing techniques (e.g.  
 squint mode, doppler beam-sharpening mode,  
 spotlight mode,  
 bistatic SAR, inverse SAR)

3 342/25R (3 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/25R SYNTHETIC APERTURE RADAR

3 342/387 (3 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/385 .Beacon or receiver  
 342/386 ..With transmisson of bearing or position  
 determinative signals  
 342/387 ...Iso-chronic type

3 342/45 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/42 RADAR TRANSPONDER SYSTEM  
 342/45 .IFF or SIF

3 342/46 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/42 RADAR TRANSPONDER SYSTEM  
 342/46 .Navigational

3 342/59 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

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AND DEVICES  
PLURAL RADAR

342/59

- 3 342/85 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
342/82 .Transmitter  
342/83 ..Signal phase or frequency other than pulse  
repetition frequency (PRF)  
342/85 ...Function of distance
- 3 356/28.5 (0 OR, 3 XR)  
Class 356 : OPTICS: MEASURING AND TESTING  
356/27 VELOCITY OR VELOCITY/HEIGHT MEASURING  
356/28 .With light detector (e.g., photocell)  
356/28.5 ..Of light interference (e.g., interferometer)
- 3 361/284 (0 OR, 3 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
361/271 ELECTROSTATIC CAPACITORS  
361/277 .Variable  
361/280 ..Responsive to external condition  
361/284 ...Liquid level
- 3 367/87 (2 OR, 1 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/87 ECHO SYSTEMS
- 3 600/495 (1 OR, 2 XR)  
Class 600 : SURGERY  
600/300 DIAGNOSTIC TESTING  
600/481 .Cardiovascular  
600/485 ..Measuring pressure in heart or blood vessel  
  
600/490 ...Force applied against skin to close blood  
vessel  
600/493 ....Electric signal generated by sensing means  
responsive to pulse or Korotkoff sounds  
600/495 .....Pressure in inflatable occluder  
automatically raised above systolic pressur

e

- 3 701/45 (3 OR, 0 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND

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RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/36 .Vehicle subsystem or accessory control

701/45 ..Control of vehicle safety devices (e.g.,  
airbag, seat-belt, etc.)

3 706/31 (0 OR, 3 XR)  
Class 706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE

706/15 NEURAL NETWORK

706/26 .Structure

706/27 ..Architecture

706/31 ...Multilayer feedforward

2 73/167 (2 OR, 0 XR)  
Class 073 : MEASURING AND TESTING

73/167 ORDNANCE AND PROJECTILE

2 73/293 (0 OR, 2 XR)  
Class 073 : MEASURING AND TESTING

73/290R LIQUID LEVEL OR DEPTH GAUGE

73/293 .With illumination

2 73/660 (2 OR, 0 XR)  
Class 073 : MEASURING AND TESTING

73/570 VIBRATION

73/649 .Sensing apparatus

73/658 ..With electrically controlled indicator

73/660 ...Rotating machinery or device

2 180/274 (0 OR, 2 XR)  
Class 180 : MOTOR VEHICLES

180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, IT

S OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT

180/274 .Responsive to engagement of portion of  
perimeter of vehicle with external object

2 210/170 (0 OR, 2 XR)  
Class 210 : LIQUID PURIFICATION OR SEPARATION

210/153 STRUCTURAL INSTALLATION

210/170 .Geographic (e.g., drainage ditch, septic,  
pond)

2 250/214.1 (0 OR, 2 XR)  
Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/206 .Photocell controlled circuit

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250/214R ..Special photocell or electron tube circuits

250/214.1 ...Special photocell

2 250/577 (0 OR, 2 XR)

Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/216 .Optical or pre-photocell system

250/573 ..Fluent material in optical path

250/577 ...Volume or level

2 324/632 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/RES

PONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/632 ..Using particular field coupling type (e.g.,  
fringing field)

2 324/643 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/R

ESPONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/637 ..Using transmitted or reflected microwaves

324/642 ...Where energy is reflected (e.g.,  
reflectometry)

324/643 ....To determine water content

2 327/183 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/183 .Delay line or capacitor storage element  
charges or discharges through a tube to for

m pulse

2 329/311 (0 OR, 2 XR)

Class 329 : DEMODULATORS

329/311 PULSE OR INTERRUPTED CONTINUOUS WAVE  
DEMODULATOR

2 331/87 (1 OR, 1 XR)

Class 331 : OSCILLATORS

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331/86 WITH MAGNETICALLY CONTROLLED SPACE DISCHARGE  
 DEVICE (E.G., MAGNETRON)  
 331/87 .With particular pulsing means

2 333/252 (1 OR, 1 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/245 LONG LINE ELEMENTS AND COMPONENTS  
 333/248 .Waveguide elements and components  
 333/252 ..Window

2 340/620 (1 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/603 ..Fluent material  
 340/612 ...Material level  
 340/618 ....Liquid  
 340/620 .....Electrode probe

2 342/101 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
 342/89 .Receiver  
 342/98 ..Frequency  
 342/99 ...Doppler frequency tracking  
 342/101 ....With filter control

2 342/111 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY  
 342/109 .Combined with determining distance  
 342/111 ..With plural receiver frequency band  
 separation

2 342/123 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/123 .Height finder

2 342/129 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/128 .With frequency modulation  
 342/129 ..Plural frequencies transmitted



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2 342/165 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/165 TESTING OR CALIBRATING OF RADAR SYSTEM

2 342/176 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/175 WITH PARTICULAR CIRCUIT  
     342/176 .Display

2 342/20 (2 OR, 0 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/13 RADAR EW (ELECTRONIC WARFARE)  
     342/20 .Detection of surveillance

2 342/200 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/175 WITH PARTICULAR CIRCUIT  
     342/200 .For frequency modulation

2 342/26R (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/26R Radar for meteorological use

2 342/28 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/27 PRESENCE DETECTION ONLY  
     342/28 .By motion detection

2 342/372 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/368 .Including a steerable array  
     342/371 ..With electronic scanning  
     342/372 ...Controlled

2 342/43 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/42 RADAR TRANSPONDER SYSTEM  
     342/43 .Combined with primary radar system

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- 2 342/450 (0 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/350 DIRECTIVE
  - 342/450 .Position indicating (e.g., triangulation)
  
- 2 342/455 (2 OR, 0 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/350 DIRECTIVE
  - 342/450 .Position indicating (e.g., triangulation)
  - 342/454 ..Traffic
  - 342/455 ...Having collision avoidance
  
- 2 342/462 (2 OR, 0 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/350 DIRECTIVE
  - 342/450 .Position indicating (e.g., triangulation)
  - 342/462 ..With altitude determination
  
- 2 342/463 (0 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/350 DIRECTIVE
  - 342/450 .Position indicating (e.g., triangulation)
  - 342/463 ..Having plural transmitters or receivers
  
- 2 342/465 (0 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/350 DIRECTIVE
  - 342/450 .Position indicating (e.g., triangulation)
  - 342/463 ..Having plural transmitters or receivers
  - 342/465 ...Plural receivers only
  
- 2 342/5 (0 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/5 RADAR REFLECTOR
  
- 2 342/54 (1 OR, 1 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES
  - 342/52 COMBINED WITH DIVERSE TYPE RADIANT ENERGY  
SYSTEM
  - 342/54 .With laser

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- 2 342/70 (1 OR, 1 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE
  - 342/70 .Radar mounted on and controls land vehicle
- 2 356/4.09 (1 OR, 1 XR)
  - Class 356 : OPTICS: MEASURING AND TESTING
  - 356/3 RANGE OR REMOTE DISTANCE FINDING
  - 356/4.01 .With photodetection
  - 356/4.09 ..Of light interference fringes
- 2 356/5.01 (0 OR, 2 XR)
  - Class 356 : OPTICS: MEASURING AND TESTING
  - 356/3 RANGE OR REMOTE DISTANCE FINDING
  - 356/4.01 .With photodetection
  - 356/5.01 ..Of pulse transit time
- 2 356/5.03 (1 OR, 1 XR)
  - Class 356 : OPTICS: MEASURING AND TESTING
  - 356/3 RANGE OR REMOTE DISTANCE FINDING
  - 356/4.01 .With photodetection
  - 356/5.01 ..Of pulse transit time
  - 356/5.03 ...Having one or more return pulse gates or windows
- 2 356/73.1 (1 OR, 1 XR)
  - Class 356 : OPTICS: MEASURING AND TESTING
  - 356/73.1 FOR OPTICAL FIBER OR WAVEGUIDE INSPECTION
- 2 367/88 (0 OR, 2 XR)
  - Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
  - 367/87 ECHO SYSTEMS
  - 367/88 .Side scanning or contour mapping sonar system
- 2 372/18 (1 OR, 1 XR)
  - Class 372 : COHERENT LIGHT GENERATORS
  - 372/9 PARTICULAR BEAM CONTROL DEVICE
  - 372/18 .Mode locking
- 2 375/238 (0 OR, 2 XR)
  - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
  - 375/238 PULSE WIDTH MODULATION

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- 2 375/317 (1 OR, 1 XR)
  - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
  - 375/316 RECEIVERS
  - 375/317 .Automatic baseline or threshold adjustment
  
- 2 375/345 (0 OR, 2 XR)
  - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
  - 375/316 RECEIVERS
  - 375/345 .Automatic gain control
  
- 2 375/349 (1 OR, 1 XR)
  - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
  - 375/316 RECEIVERS
  - 375/346 .Interference or noise reduction
  - 375/349 ..Plural signal paths in receiver
  
- 2 442/230 (0 OR, 2 XR)
  - Class 442 : FABRIC
  - 442/181 WOVEN FABRIC (I.E., WOVEN STRAND OR STRIP MATERIAL)
  - 442/228 .Including a free metal or alloy constituent
  - 442/230 ..Vapor or sputter deposited metal layer
  
- 2 442/231 (0 OR, 2 XR)
  - Class 442 : FABRIC
  - 442/181 WOVEN FABRIC (I.E., WOVEN STRAND OR STRIP MATERIAL)
  - 442/228 .Including a free metal or alloy constituent
  - 442/231 ..Chemically deposited metal layer (e.g., chemical precipitation or electrochemical deposition or plating, etc.)
  
- 2 455/305 (0 OR, 2 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/296 .Noise or interference elimination
  - 455/303 ..Using plural separate signal paths
  - 455/305 ...With balancing or neutralizing
  
- 2 600/493 (2 OR, 0 XR)
  - Class 600 : SURGERY
  - 600/300 DIAGNOSTIC TESTING
  - 600/481 .Cardiovascular
  - 600/485 ..Measuring pressure in heart or blood vessel
  - 600/490 ...Force applied against skin to close blood

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vessel

600/493       ....Electric signal generated by sensing means  
                  responsive to pulse or Korotkoff sounds

2   702/3       (2 OR, 0 XR)  
      Class   702 :   DATA PROCESSING: MEASURING, CALIBRATING, OR  
                  TESTING  
      702/1       MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT  
      702/2       .Earth science  
      702/3       ..Weather

2   706/20      (2 OR, 0 XR)  
      Class   706 :   DATA PROCESSING: ARTIFICIAL INTELLIGENCE  
      706/15      NEURAL NETWORK  
      706/16      .Learning task  
      706/20      ..Classification or recognition

2   706/28      (0 OR, 2 XR)  
      Class   706 :   DATA PROCESSING: ARTIFICIAL INTELLIGENCE  
      706/15      NEURAL NETWORK  
      706/26      .Structure  
      706/27      ..Architecture  
      706/28      ...Modular

2   708/404     (0 OR, 2 XR)  
      Class   708 :   ELECTRICAL COMPUTERS:   ARITHMETIC PROCESSING  
                  AND CALCULATING  
      708/100     ELECTRICAL DIGITAL CALCULATING COMPUTER  
      708/200     .Particular function performed  
      708/400     ..Transform  
      708/403     ...Fourier  
      708/404     ....Fast Fourier Transform (i.e., FFT)

2   708/405     (0 OR, 2 XR)  
      Class   708 :   ELECTRICAL COMPUTERS:   ARITHMETIC PROCESSING  
                  AND CALCULATING  
      708/100     ELECTRICAL DIGITAL CALCULATING COMPUTER  
      708/200     .Particular function performed  
      708/400     ..Transform  
      708/403     ...Fourier  
      708/405     ....Discrete Fourier Transform (i.e., DFT)

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 acknowledgement 1  
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 alarm 2  
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 allowing 2  
 alone 5  
 already 2  
 also 1  
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 another 4  
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 coupled 2  
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 fax 1  
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 field 2  
 fig 3  
 figure 2  
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 filling 9  
 first 7  
 flowchart 1  
 fluid 5  
 fmcw 5  
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 form 3  
 frequencies 1  
 frequency 10  
 from 9  
 function 1  
 fundamental 1  
 further 3  
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 gap 3  
 gas 1  
 gauge 35  
 gaugels 7  
 gauges 59  
 gaugets 1  
 gauging 14  
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 generally 1  
 generated 1  
 ghz 4  
 give 1  
 gs 3  
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 having 6  
 height 4

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hereto 1  
horn 3  
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however 4  
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invention 15  
inventive 2

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ld 3  
lead 1  
least 5  
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level 26  
limit 1  
listens 1  
lmks 1  
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made 2  
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manner 1  
marus 1  
material 1  
matter 1  
may 17  
means 8  
measure 9  
measurement 14  
measurements 1  
measures 2  
measuring 16  
memory 1  
merely 1  
message 3  
method 12  
mhz 2  
microwave 16  
microwaves 9  
mmth 1  
mode 6  
moduiated 1  
modulated 2  
modulation 1

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moreover 1  
mounted 1  
nanosecond 1  
nanoseconds 1  
necessarily 1  
need 1  
negligible 1  
negotiation 1  
new 1  
next 3  
no 1  
non 1  
normally 2  
not 4  
noted 1  
novel 1  
ns 2  
number 3  
numbers 1  
object 6  
objects 1  
of 88  
office 1  
oftheinvention 1  
ohlsson 1  
oil 2  
omissions 1  
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operation 1  
operator 2  
or 29  
order 2  
other 23  
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packets 4  
page 10  
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parameters 1  
particularly 1  
patent 2  
perform 1

pointed 1  
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pond 1  
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possible 2  
post 1  
powder 1  
predetermined 4  
preferred 6  
presence 1  
present 12  
presently 1  
prevent 2  
preventing 7  
prevention 3  
prf 6  
principally 1  
pro 1  
problem 1  
procedure 1  
procedures 1  
process 2  
processing 1  
product 17  
produd 3  
protocols 1  
provide 7  
provided 4  
provides 1  
providing 2  
provisional 1  
prpdud 1  
ps 2  
pulse 30  
pulses 36  
pulverized 1  
purpose 1  
purposes 1  
radar 109  
radars 1  
radiated 1  
recalculate 1  
receive 5  
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receiver 4  
receives 1  
receiving 5  
reception 1

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redundancy 1  
refefencm 1  
reference 2  
referring 1  
refinery 1  
reflected 7  
related 1  
relates 1  
relative 1  
remark 1  
repeatedly 2  
repetition 1  
representation 1  
result 4  
results 2  
return 1  
risk 1  
rod 1  
rtokxkvs 1  
rx 2  
said 27  
same 6  
sand 1  
saying 1  
scale 1  
scanning 1  
schematic 1  
schematically 1  
scope 2  
sealed 1  
second 4  
seconds 2  
security 1  
send 3  
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sends 3  
sensitive 1  
sent 3  
separated 2  
sequence 1  
serious 1  
session 1  
several 3  
shaped 1  
shingtqp 1  
ship 1  
short 2

should 4  
showing 1  
shown 6  
signal 3  
signals 2  
similar 1  
situations 1  
size 1  
skilled 1  
small 1  
so 2  
software 1  
solely 1  
solid 1  
spirit 1  
stand 5  
start 2  
starts 2  
states 1  
step 9  
steps 3  
still 2  
stone 1  
stop 2  
storage 1  
stored 3  
straightforward 1  
strength 1  
structures 2  
substantially 2  
substitutions 1  
such 10  
suggested 1  
suitable 1  
summary 1  
sure 1  
surface 15  
synchronize 1  
synchronized 2  
system 13  
systems 1  
take 2  
tank 2  
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telephone 1  
telling 1  
than 8  
that 15

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then 1  
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therefore 3  
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third 2  
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throughout 1  
thus 3  
time 7  
timeframes 2  
timing 3  
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top 2  
towards 6  
transit 1  
transmission 1  
transmit 6  
transmits 3  
transmitted 8  
transmitter 4  
transmitting 7  
travel 1  
turn 2  
two 20  
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type 2  
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understood 3  
unique 2  
unit 7  
united 1  
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up 1  
upon 2  
use 4  
used 15



uses 1  
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utilizing 1  
value 2  
various 1  
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versa 1  
versions 1  
via 1  
vice 1  
views 1  
waiting 1  
water 1  
wave 3  
waveguide 1  
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well 2  
when 3  
where 1  
wherein 2  
which 19  
while 3  
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will 12  
with 18  
within 5  
without 1  
word 2  
would 1  
wrong 1  
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